

ABSTRACT

**Method and Apparatus for Detection of Pilot Signal With Frequency Offset
Using Multi-Stage Correlator**

5 The disclosed embodiments relate to a method and apparatus for performing
a pilot synchronization operation in a wireless communication system. The system
may contain a plurality of sliding correlators that each receives a portion of a
received correlation sequence and provides a partial correlation output. An absolute
value block may take the absolute value of each partial correlation output. Circuitry
10 may combine the absolute values of each of the partial correlation outputs to form a
correlation output.